

# SWOS PCO/PXO BRIFF

RADM George Mayer
Naval Safety
Center 18
August 2006

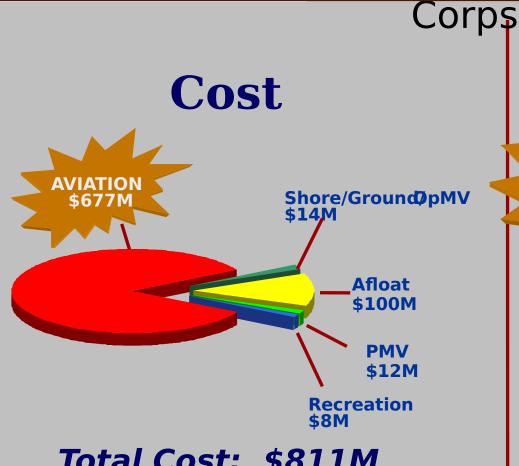
# Crew Safety during Hi-tempo Operations

# The Missile Deck

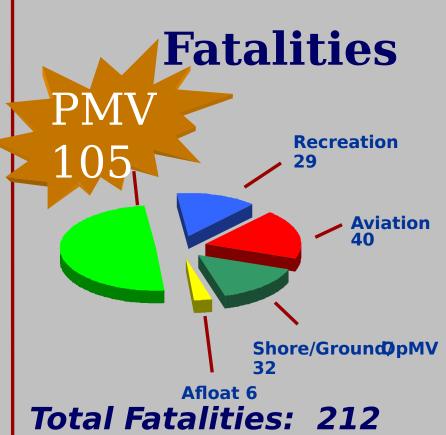




## FY05 Total Cost and Deaths Navy and Marine



Total Cost: \$811M



# Magnitude of Accidents

# In FY05, Navy and Marine Corps Mishaps Resulted In:

#### NAVY

- 1 Navy death every 88 hours (4 days)
- 1 POV death every 151 hours (6 days)
- 1 Afloat Class A Mishap per month
- \$100,480,263 loss in Afloat mishaps

#### MARINE CORPS

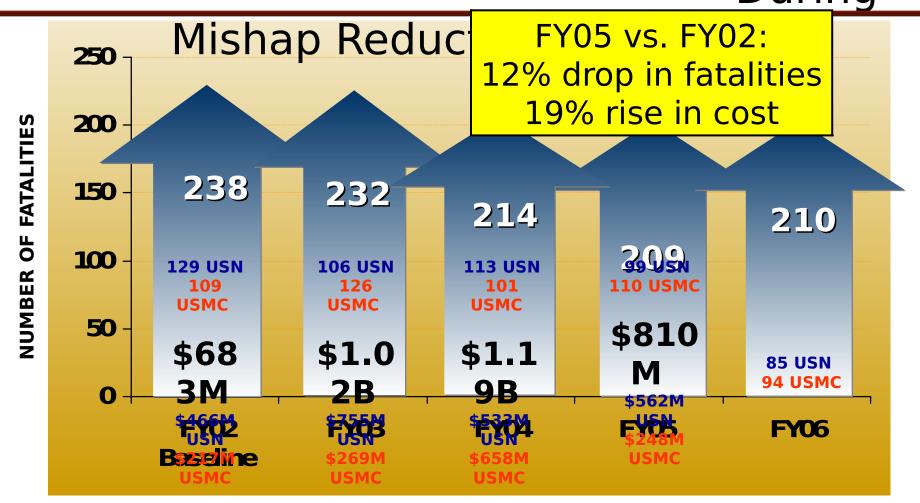
- 1 Marine death every 80 hours (3 days)
- 1 POV death every 195 hours (8 days)
- 1 Aviation death every 11 days
- 1 Aircraft destroyed every 19 days
- \$1.63M a day in aviation losses







# USN/USMC Fatalities & Resources Lost During

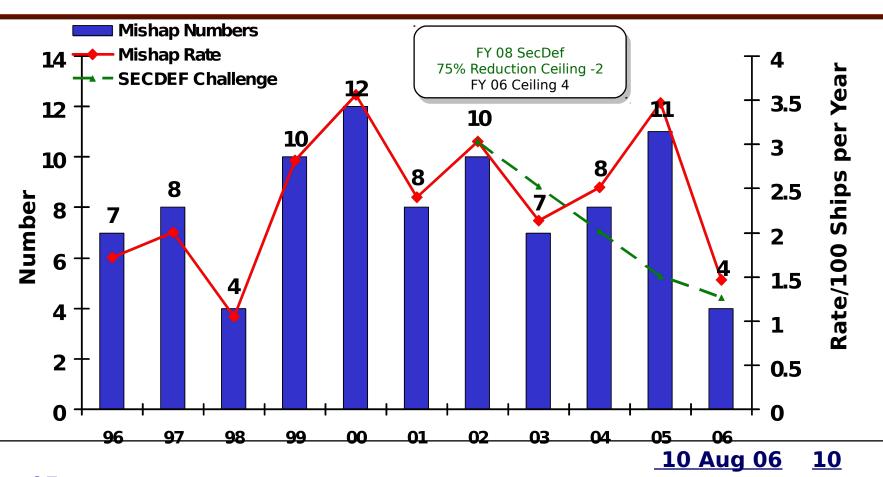


## **ENDSTATE GOAL IS ZERO!**





# CLASS A AFLOAT MISHAPS



**Aug 05** 

**CLASS A MISHAPS/MISHAP RATE FY COMPARISON:** 

4 / 1.47

7 /

2.56

**FY05 MISHAPS/MISHAP RATE:** 11 / 3.47

(96-05) MISHAPS/MISHAP RATE: 8.5 / 2.43



# Areas of Concern – Afloat

- Human error is primary cause of all shipboard mishaps.

  - Inadequate Supervision
    PMS not accomplished
    Poor Crew Resource Management
    Lack of Situational Awareness
    Complacency
- Strict adherence to CO's Standing Orders and Rules of the Road critical to safe operation.
- Chronic fatigue impacts decision making ability and judgment of shipboard personnel (especially watchstanders).
  - Schedule shipboard evolutions to maximize personnel "downtime" for recuperative sleep.
- Shipboard maintenance evolutions must adhere to the Joint Fleet Maintenance Manual and ensure Quality Assurance before, during and upon completion of every maintenance evolution.





# Best Fleet Practices - Afloat

<u>Integrate ORM into all shipboard training and Off-Duty activities.</u>

- Visible senior leadership support for/and verification of ORM by work center personnel during daily activities.
- 2. Departmental/divisional quarters Led by Officers and CPO's. (Don't be an E-mail Leader!)
- 3. Daily senior leadership Involved with work center personnel.
- 4. Consistent use and application of RM throughout chain-of-command On- and Off-Duty!





USS JOHN F KENNEDY 22 July 04

Collision with dhow



# USS PATRIOT 19 March 2005



# USS ESSEX 07 June 2005

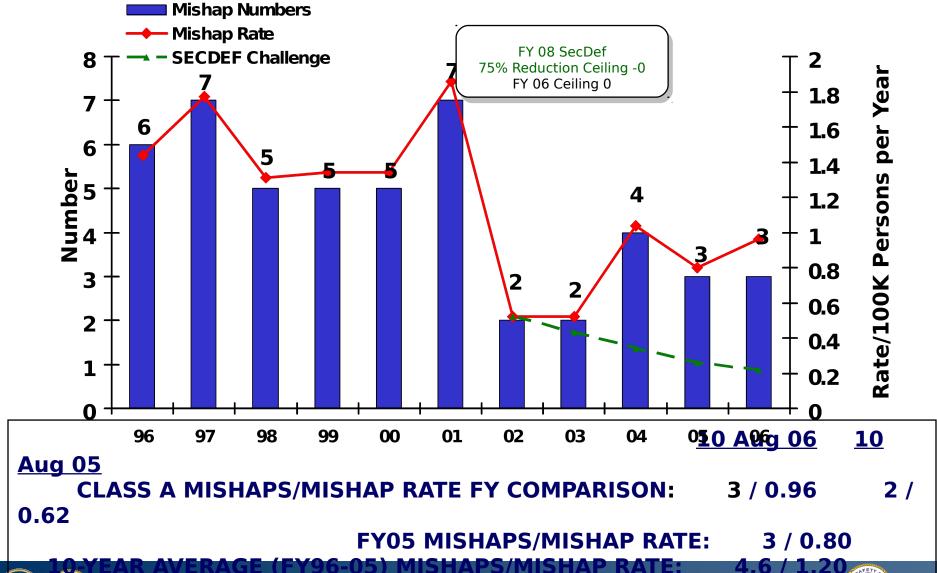
Fatality from exposure to H2S/AFFF after







## CLASS A SHORE OPER MISHAPS







Alla

### 117 Navy and Marine Corps Fatalities = 6.9 USS PMV











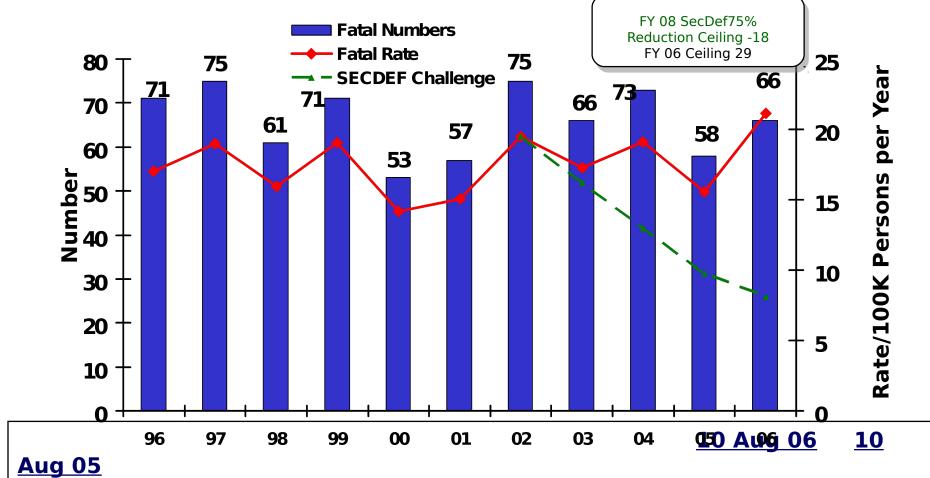








# PMV FATALITIES



Aug 05
CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 66 / 21.14 48 / 14.95

FY05 FATALITIES/FATALITY RATE: 58 / 15.54



## FLEET BEST PRACTICES - PMV

- Find out who is at risk help them manage that risk; engaged mentorship
- 2. Understand that becoming a safe driver is part of young person's maturation process; recent studies indicate is not complete until age 25 or above
- 3. Traffic Safety Toolbox to provide the necessary tools to reduce mishaps
- 4. Engage in partnerships with local community. (Click It or Ticket, *You Drink, You Drive, You Lose*, MADD)
- 5. Letter home to solicit family's help to keep their loved one safe
- Make traffic safety a paramount consideration of command; on par with other operational considerations







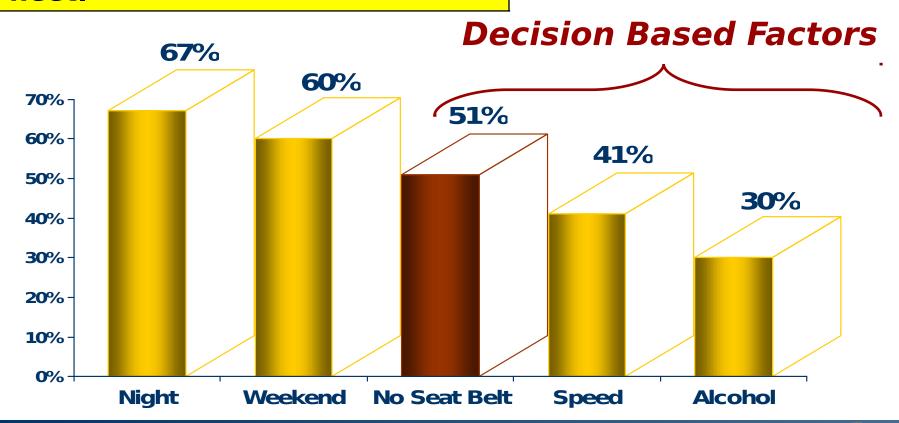






# Leading Factors In Traffic Deaths (FY02-04)

Fatigue is considered a major factor in traffic deaths, but is under-reported throughout the fleet.





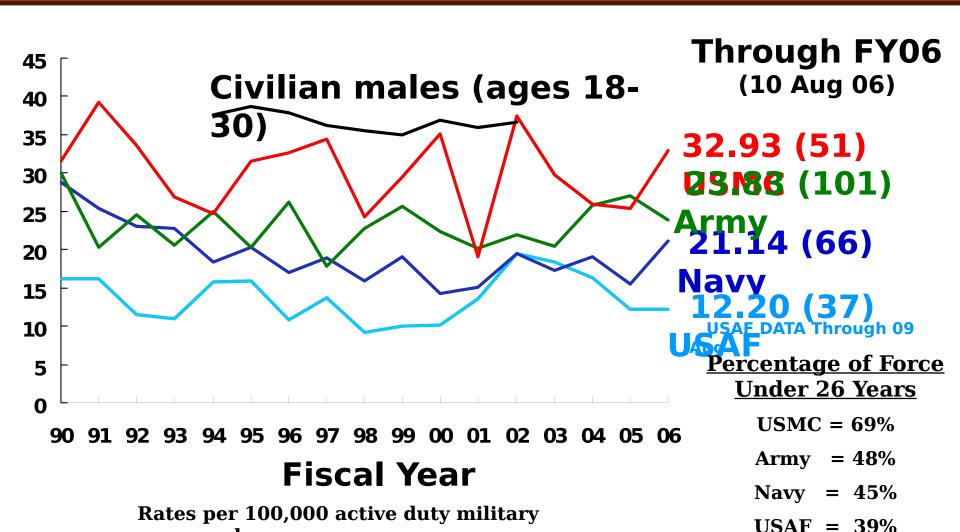


# No One Should Die Because They Weren't Wearing A Seatbelt





# Armed Forces Traffic Death Rates (FY90-06)

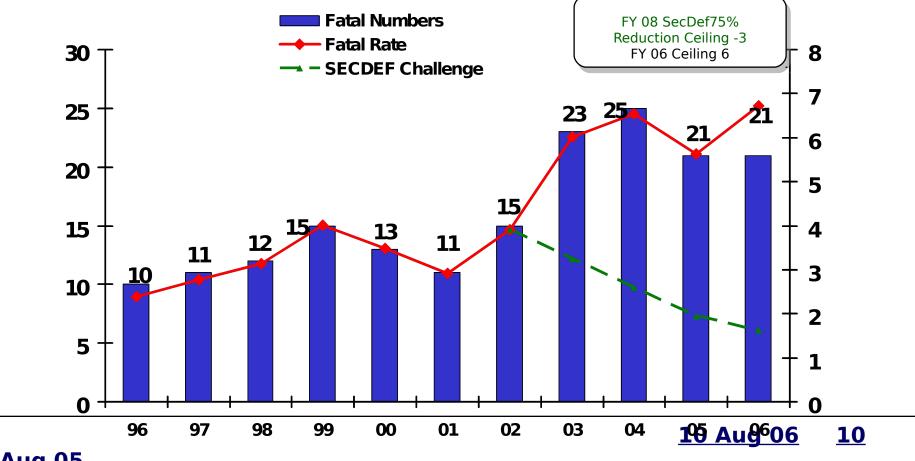






personnel per year.

## MOTORCYCLE PMV FATALITIES



Aug 05
CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 21 / 6.73 16 / 4.98

FY05 FATALITIES/FATALITY RATE: 21 / 5.63



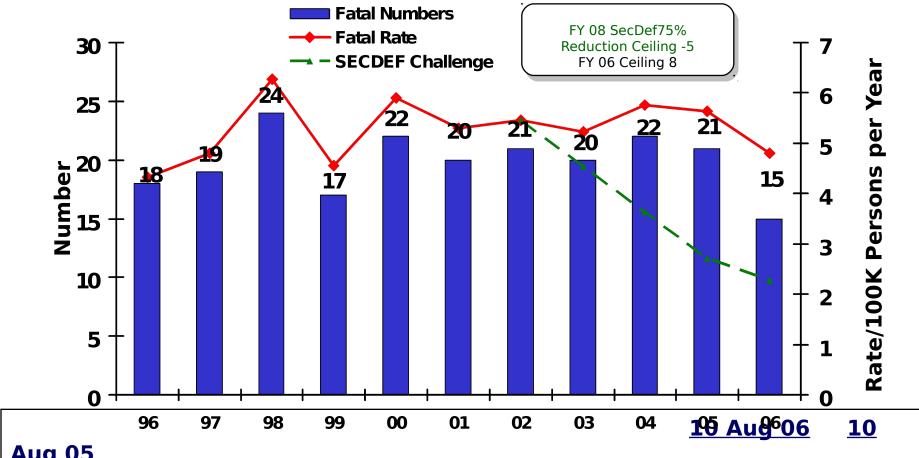








# OFF-DUTY/REC FATALITIES



Aug 05
CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 15 / 4.80 20 / 6.23

FY05 FATALITIES/FATALITY RATE: 21 / 5.63

10-YEAR AVERAGE (FY96-05) FATALITIES/FATALITY RATE: 20.4 / 5.3:





## What Hazards Exist Here?







# Best Fleet Practices – Off-Duty Rec

- 1. Commanders/Commands and supervisors engaged in Risk Management and RODS program.
- 2. <u>Individuals</u> use risk management process before participating in their leisure-time activities.
- 3. RODS Program Managers Ensure command personnel have seasonal hazard awareness training.
- 4. Individual Off-Duty Risk Assessment Form Assess behavior factors and indicators related to off-duty recreation mishaps.
- 5. MWR Automotive/Woodworking and Small Boat Rental Provide qualification training and skills test

# ORM: Risk Management <u>Not</u> Risk Avoidance



- Easy, common-sense process
- Mind-set
- Way of life On and Off Duty
- Operating discipline
- Process must be taught
- Must institutionalize ORM <u>it's</u>

not today

YOU CAN'T "ORM" SOMETHING THAT'S STUPID, TO SOMETHING THAT'S SMART!!!



# Effective Use of Risk Management

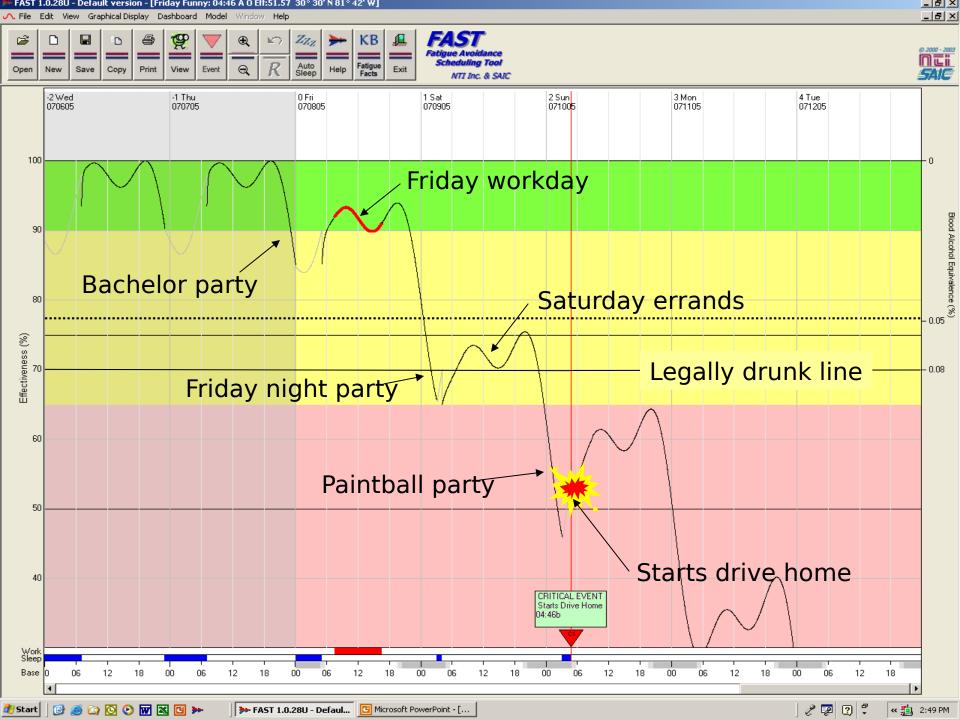




## NAVSAFCEN "FRIDAY FUNNIES"

- AN E-5 WENT TO A BACHELOR PARTY UNTIL MIDNIGHT, SLEPT FIVE HOURS, THEN WENT TO WORK. TOILED ALL DAY, THEN WENT ON LEAVE.
- DROVE 120 MILES TO A PARTY AND BOOGALOOED UNTIL THREE O'CLOCK IN THE MORNING. SLEPT FOR AN HOUR ON THE WAY BACK, RAN ERRANDS ALL DAY, MET SOME FRIENDS FOR A MIDNIGHT GAME OF PAINTBALL THAT LASTED, ONCE AGAIN, UNTIL THAT MAGICAL HOUR OF 0300.
- HEADED HOME AT 0445. PULLED OVER WITHIN 30 MINUTES TO STRETCH AND YAWN.
- HE THEN GOT BACK BEHIND THE WHEEL, FELL ASLEEP ON A CAUSEWAY, VEERED OFF THE ROAD AND RAN INTO TWO GUARD RAILS. HIS PICKUP TRUCK WENT AIRBORNE AND SPLASHED DOWN INTO THE BAY BELOW.
- THE SAILOR CAME TO, RELEASED HIS SEAT BELT, CRAWLED THROUGH A BROKEN WINDOW, AND SWAM TO A PYLON. FORTUNATELY, A PASSING MOTORIST HAD SEEN THIS DRAMA AND CALLED EMERGENCY SERVICES.
- THE SOUND OF YOUR VEHICLE CRUMPLING INTO AN INDISTINGUISHABLE WAD AROUND YOUR SUDDENLY WIDE-AWAKE SELF IS YOUR LAST CHOICE IN AN ALARM CLOCK. AND SPENDING FOUR DAYS IN THE HOSPITAL AND TWO WEEKS CONVALESCING IS A DISMAL WAY TO SPEND YOUR TWO WEEKS OF POST-DEPLOYMENT LEAVE.





# THE COMMANDING OFFICER







# Recommendations to Improve Safety in Your Command

#### 1. Naval Safety Center Website - The Tools Are There!

- Traffic Safety Toolbox
- Web-Enabled Safety System (WESS) Online mishap reporting / database
- Leave and Liberty Risk Assessments

#### 2. Ensure a SOLID Welcome Aboard, Sponsorship/ Mentorship Program.

- First impressions are lasting ones
- On and Off duty activities must be addressed

#### 3. Identify "high-risk" personnel within command.

- Ensure leadership is engaged with subordinate personnel
- Establish awareness training of high-risk activities and mentoring for high-risk personnel
- Identify motorcycle operators and confirm required training is complete



30

# Recommendations to Improve Safety in Your Command

#### 4. Do the inexpensive things at a minimum.

- Schedule a Culture Workshop / Safety Survey
- Distribute "Safe Ride" taxi cards
- Conduct pre-holiday safety standdowns
- Require leave chit risk assessments prior to authorizing leave

#### 5. Maintain high-visibility within command.

- Establish and enforce standards- defined command safety policy
- Treat every mishap the same (PMV/Off-Duty Fatality hurts command as much as material mishap)
- Correct safety deficiencies immediately
- Hold personnel ACCOUNTABLE for failure to follow regulations

#### **6.** INSPECT for compliance

- Verify command policies are being followed
- Demonstrate daily commitment to safety
- Ensure experience level matches assigned duties





## What We Do for the Fleet

# Naval Safety Center Providing aviation, afloat, and shore support to Navy and Marine Corps commands MARKETING WEBSITE SURVEYS MAGAZINES

#### NSC at your service... for free!

Let our experience, expertise and unrivaled commitment to safety work for you.

Mishap Investigations
Surveys
Assist Visits
Data Analysis
Workshops
Publications
Website

Presentations

Call 757-444-3520 (DSN 564) or visit our website: www.safetycenter.navy.mil

#### ON THE ROAD

- Safety surveys
- Afloat Safety Climate Assessment Survey (ASCAS)
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings
- NAVOSHENVTRACEN Safety & Occupational Health Training

#### **AWARENESS**

- Fleet Analysis
- Magazines printed/distributed (473,000 copies)
- Interactive CD's
- Acquisition process in-roads
- Safety advisories
- Customer information requests
   (3,600+ database queries per month)
- Safety Center web page







# NSC Website:

# Your Valuable Resource

www.safetycenter. navy.mil



Site Map | Search

Afloat | Ashore | Aviation | Media | OSH | Services | Training | Popular

#### Resources

- Executive Summary
- Safety Toolbox
- 75% Mishap Reduction
- Presentations
- Traffic Safety Toolbox
- TRAC (traffic risk mgmt.)
- Success Stories
- Statistics
- Newsroom/Press Kit
- POD Notes, Slogans

#### **Quick Links**

- Photo of the Week
- Friday Funnies
- Safety School
- Acquisition Safety
- Safety Surveys
- Culture Workshops
- FOIA
- Secure Site (PKI)

#### Staff

- Biographies
- Directory
- Mission
- Contact us
- <u>Make us your home</u>

page

Last Updated: August 9, 2006

# 28 82

#### Traffic Death Update

On August 8, an E-3 from USS Dwight D. Eisenhower was killed in a car wreck near Mt. Vernon, Ky. An E-3 shipmate was injured.

PMV Stats | PMV Narratives

Navy and Marine Corps PMV Deaths FY06 to date: 117

#### In the Spotlight

What's New | More Articles

- NSC Website Breach of Information Frequently Asked Questions
- · NHTSA Offers Tips for Safe Summer Trips
- How Not to Transport Gasoline

- Doing It Right Vs. Doing It Right Now
- Car Show and Traffic Safety Go Together
- Traffic5100

#### Initiatives and Tools

















This is an official U.S. Navy Web site.

Naval Safety Center, 375 A St. Norfolk, VA 23511 Contact the Webmaster or









# Our Magazines Reach Every Community "Tell Your Story"

**APPROACH (1955)** 

**16,183** copies

SAFE-Approach@navy.mil

**MECH (1961)** 

17,124 copies

SAFE-Mech@navv.mil

#### **GROUND WARRIOR (1999)**

27,550 copies

SAFE-GrndWarrior@navv.mil

#### **SEA&SHORE (2004)**

**30,442** copies

SAFE-SeaShore@navy.mil

Ship's Safety Bulletin (SSB)

http://safetycenter.navy.mil/media/ssb/defaul

SAFE-SSB@navv.mil

FATHOM (1969-2003)

Out of circulation. For archives, visit:

http://safetycenter.navy.mil/media/fathom/default.htn

ASHORE (1985-2003)

For distribution inquiries, contact:

Terreing Military System

virginia.rives@navy.mil 757.444-3520 ext. 7256









# What's A Safety Survey?

- Free, one-day assessment by Safety Center
- Survey teams improve your crews awareness in mishap prevention and recurring safety deficiencies
- No formal reports to higher authority -- not an inspection
- Static Appraisal

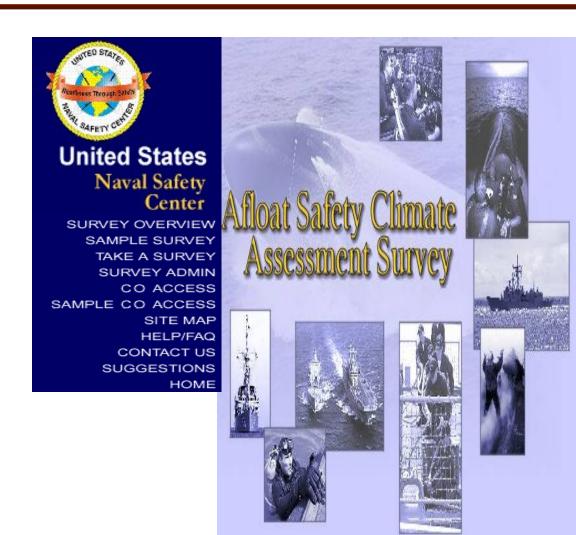






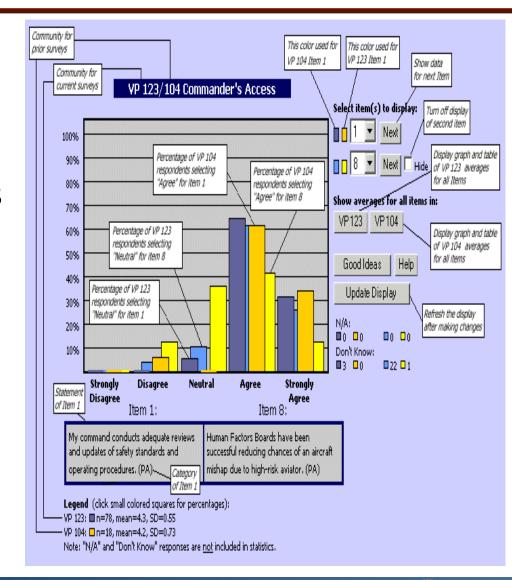
# AFLOAT SAFETY CLIMATE ASSESSMENT SURVEY (ASCAS)

- What is ASCAS?
- Web based command climate survey on safety
- Designed for Dept Heads down to the most junior Sailor
- A secure way for the individual to provide an honest opinion on the ships safety program
- A private tool the CO can use to pulse the



# What can ASCAS do for you?

- Examines how ship stacks up against the fleet.
- Lets the CO know exactly where the ship's safety program stands.
- Gives you a starting point to improve your safety program.
- Helps re-enforce ships safety program
- A tool to track your progress in improving your safety program









- **Blue Threat** Action/Inaction by own forces causing losses
- Blue Threat Losses far exceed Red Threat losses

# PMV SAFETY SUMMIT 2006

#### April-May 2006 PMV Online Survey Results:

- 1 out of 23 Sailors appears to have had a DUI
- 97% of those recently returned from deployment said they had received PMV Training
- 81% of Sailors that either had a DUI or wrecked while under the influence of alcohol had less than an Associates Degree

#### • 2006 PMV Focus Groups Major Findings:

- Personnel interviewed stated they <u>SPEED</u> because of adrenaline, running late for work, and testing vehicle's capability
- Operational tempo and watch standing requirements were the casual factors mentioned for driving while <u>FATIGUED</u>
- Personnel who are <u>DRINKING</u> out in town are reluctant to use the "Arrive Alive" or "Tipsy Taxi" if available because individuals fear repercussion from the command





## TRAFFIC RISK ASSESSMENT CONTROL

#### TRiPS

- Delivered to the Naval Safety Center for Fleet use in 2006; based on ASMIS-2 Army Safety Management Information System
- A click away on <u>http://www.safetycenter.navy.mil</u>
- Provides ORM trip assessment and actual mishap cases relevant to planned trip. Risk values/models based on NTSB data
- Trip map, times, distances and other products improve *supervisor interaction;* CBT course content designed to help change behavior



# COLLECTING/DISSEMINATING THE DATA



- An integrated system to <u>web enable</u> the data collection and information dissemination safety business processes for Navy & Marine Corps.
- Allow data transfer with DOD, other Services & other systems with a stake in safety
- Allow safety customers direct access, on-line, to safety data to target mishap prevention.



# Where We're Going...



#### ORM - Safety Training Continuum

- "Cradle to grave" training for every Sailor
- Partnership with NETC/HPDC in development of 5VM safety curriculum
- Standardize training across USN

#### • Driver Improvement Program

- ID high-risk drivers
- Provide focused training
- Develop driver-training continuum

#### Naval Safety Strategy (DASN(S))

- POA&M to get us to 75% mishap reduction





# Our Goal...







# Contacts and Resources

Naval Safety Center Website: www.safetycenter.navy.mil

PMV/Recreation Fatalities Statistics http://www.safetycenter.navy.mil/execsummary/default.htm

Culture Workshop/Best Fleet Practices/Lessons Learned http://www.safetycenter.navy.mil/culture/default.htm

#### **Traffic Safety Toolbox**

http://www.safetycenter.navy.mil/ashore/motorvehicle/toolbox/default.htm

Focus Groups/Strategic Planning/Marketing evelyn.odango@navy.mil or 757-444-3520 x 7312

#### **Traffic Safety/Off-Duty Priority Initiatives**

Traffic: mary.brigham@navy.mil or 757-444-3520 x 7134

Community Partnerships: bonnie.revell@navy.mil or 757-444-3520

x 7138



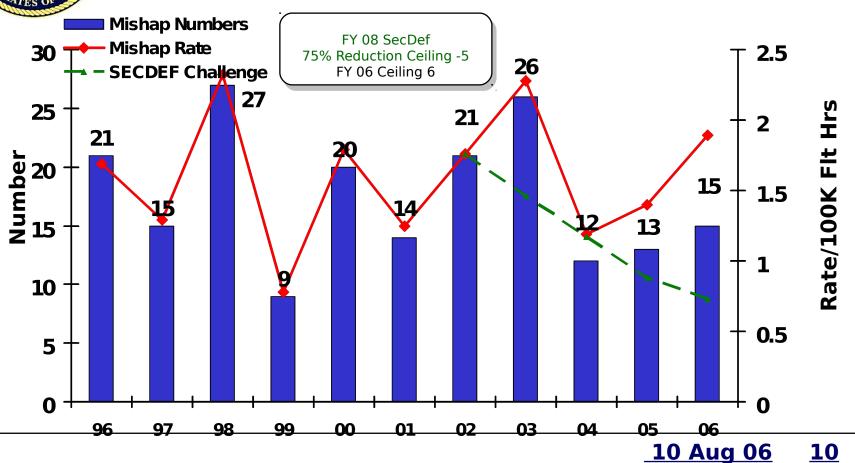








# CLASS A FLIGHT MISHAPS



**Aug 05** 

CLASS A FM/FM RATE FY COMPARISON: 15 / 1.89

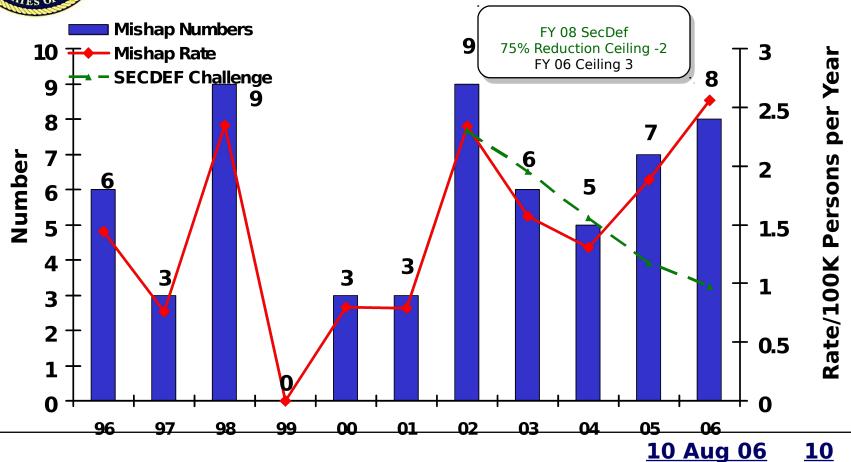
11 / 1.40

FY05 MISHAPS/MISHAP RATE: 13 / 1.40

**10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE:** 17.8 / 1.59



# SICAL TRAINING FATALITIES



**Aug 05** 

CLASS A MISHAPS/MISHAP RATE FY COMPARISON: 8 / 2.56 5 /

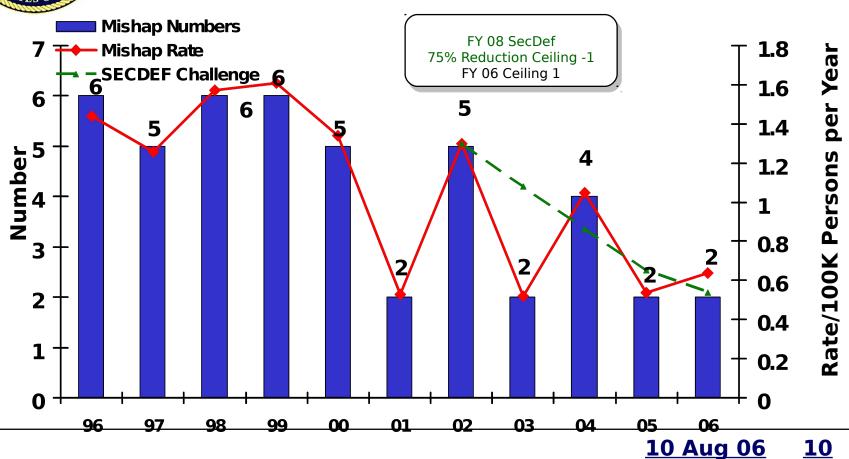
1.56

FY05 MISHAPS/MISHAP RATE: 7 / 1.88

10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE: 5.1 / 1.33



# CLASS A OPER MV MISHAPS



**Aug 05** 

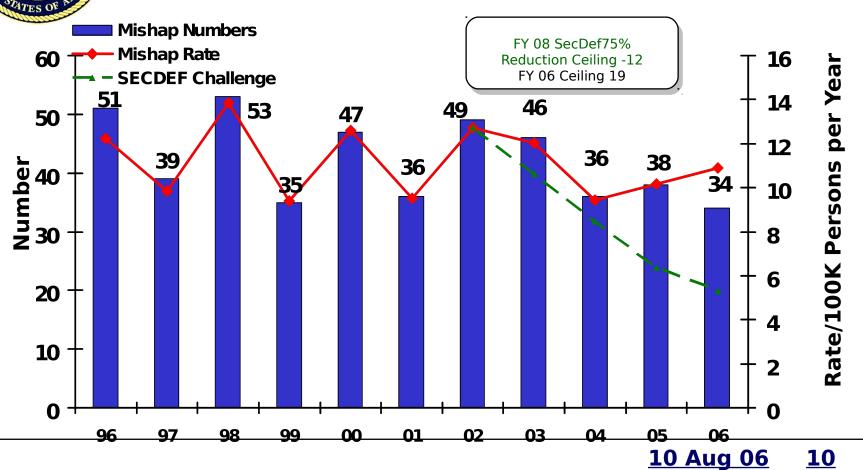
CLASS A MISHAPS/MISHAP RATE FY COMPARISON: 2 / 0.64 2 /

0.62

FY05 MISHAPS/MISHAP RATE: 2 / 0.54

10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE: 4.3 / 1.12

# TAL CLASS A OPER MISHAPS



**Aug 05** 

CLASS A MISHAPS/MISHAP RATE FY COMPARISON: 34 / 10.89 28

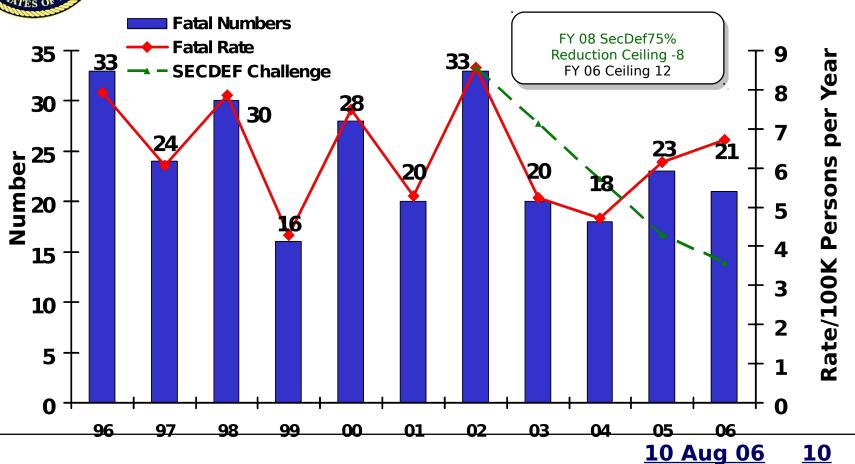
/ 8.72

FY05 MISHAPS/MISHAP RATE: 38 / 10.18

**10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE:** 43.0 / 11.19



### OPERATIONAL FATALITIES



**Aug 05** 

**FATALITIES/FATALITY RATE FY COMPARISON: 21 / 6.73 15 /** 

4.67

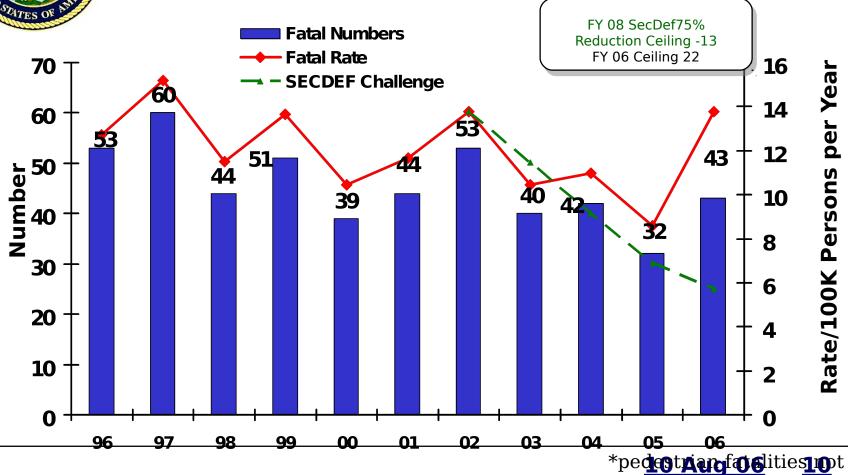
FY05 FATALITIES/FATALITY RATE: 23 / 6.16

10-YEAR AVERAGE (FY96-05) FATALITIES/FATALITY RATE: 24.5 / 6.38



### 4-WHEEL PMV FATALITIES

included



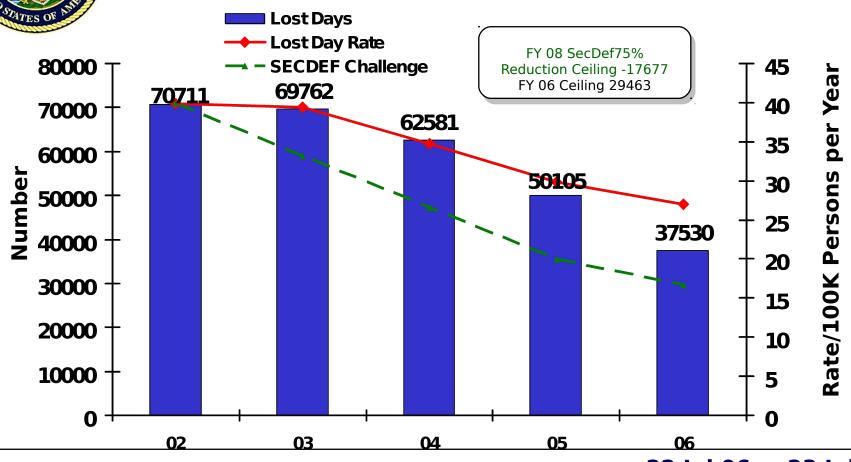
**Aug 05** 

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 43 / 13.77 28 / 8.72

FY05 FATALITIES/FATALITY RATE: 32 / 8.57 10-YEAR AVERAGE (FY96-05) FATALITIES/FATALITY RATE: 45.8 / 11.92



# CIVILIAN LOST WORK DAY



22 Jul 06 23 Jul

**05** 

**LOST WORK DAY FY RATE COMPARISON: 26.99** 

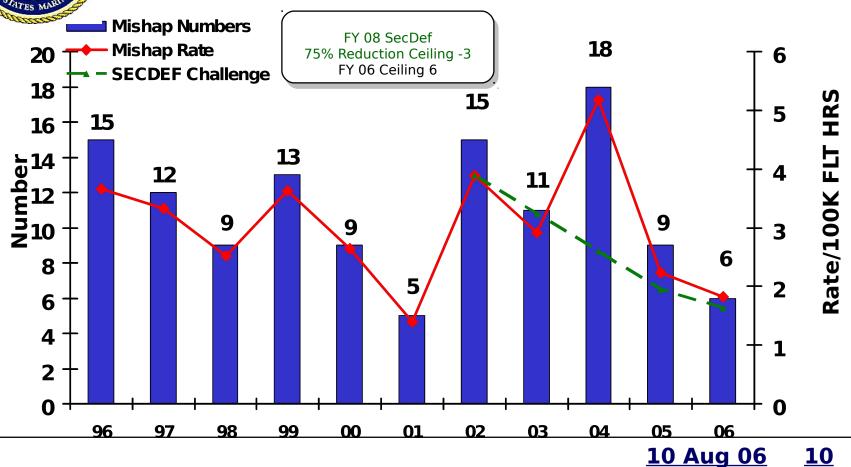
29.73

FY05 LOST WORK DAY RATE: 29.89

4-YEAR AVERAGE (FY02-05) LOST WORK DAY RATE: 36.03



### CLASS A FLIGHT MISHAPS



**Aug 05** 

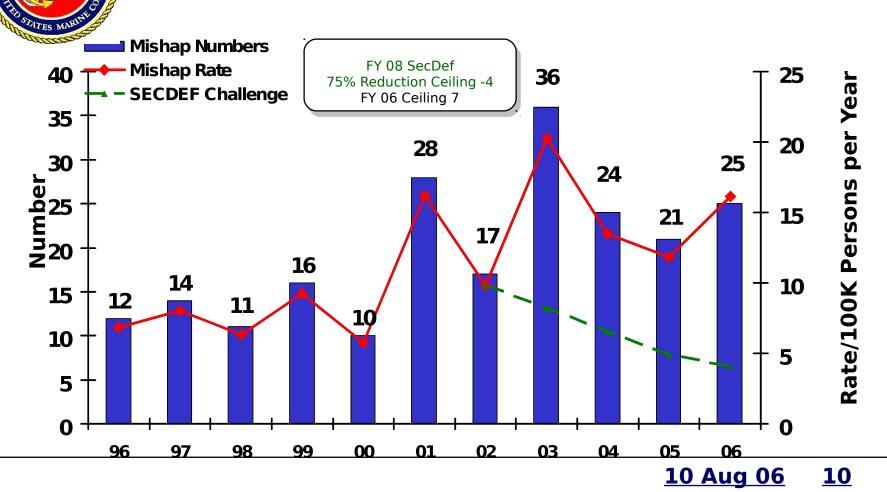
CLASS A FM/FM RATE FY COMPARISON: 6 / 1.83

9 / 2.62

FY05 MISHAPS/MISHAP RATE: 9 / 2.24

**10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE:** 11.6 / 3.14

# ASS A GROUND OPER MISHAPS



**Aug 05** 

CLASS A MISHAPS/MISHAP RATE FY COMPARISON: 25 / 16.14 19 /

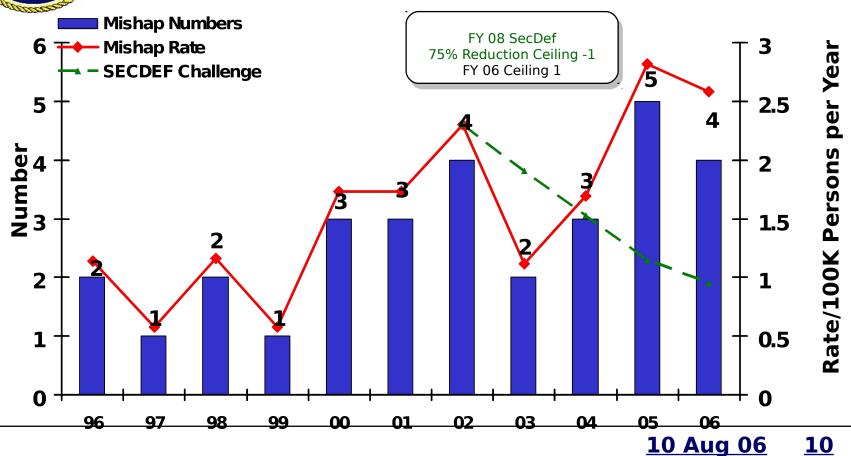
12.45

FY05 MISHAPS/MISHAP RATE: 21 / 11.83

**10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE: 18.9 / 10.81** 



# CLASS A OPER MV MISHAPS



**Aug 05** 

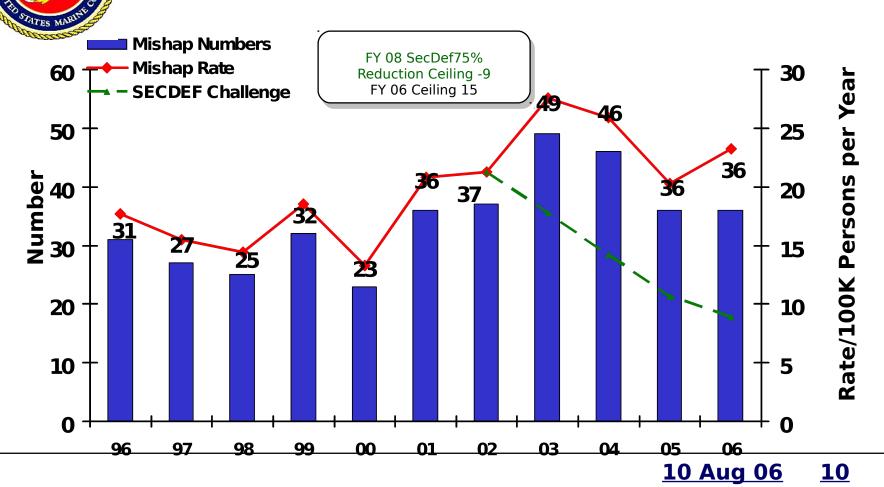
CLASS A MISHAPS/MISHAP RATE FY COMPARISON: 4 / 2.58 4 /

2.62

FY05 MISHAPS/MISHAP RATE: 5 / 2.82

10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE: 2.6 / 1.49

# TAL CLASS A OPER MISHAPS



**Aug 05** 

CLASS A MISHAPS/MISHAP RATE FY COMPARISON: 36 / 23.25 33 /

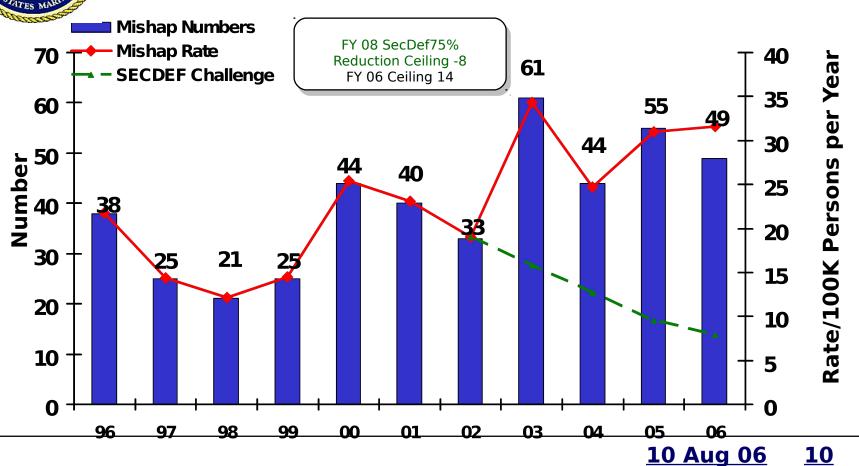
21.62

FY05 MISHAPS/MISHAP RATE: 36 / 20.28

**10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE:** 34.2 / 19.57



## OPERATIONAL FATALITIES



**Aug 05** 

CLASS A MISHAPS/MISHAP RATE FY COMPARISON: 49 / 31.64 52 /

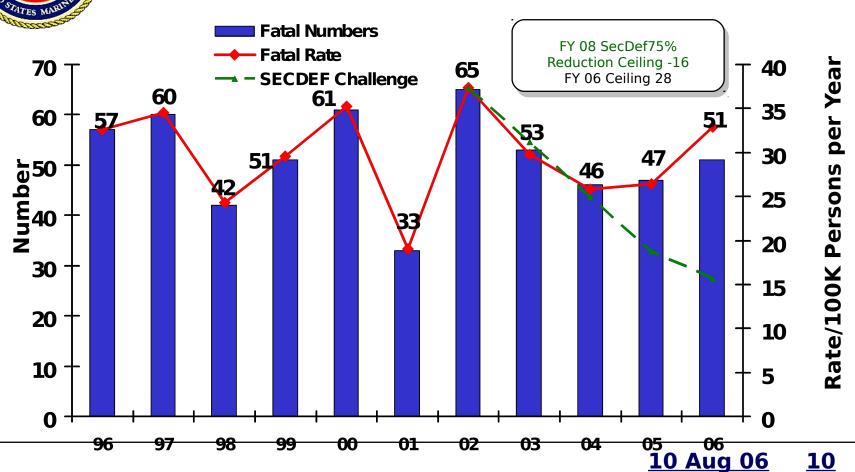
34.06 FY05

MISHAPS/MISHAP RATE: 55 / 30.99

**10-YEAR AVERAGE (FY96-05) MISHAPS/MISHAP RATE: 38.6 / 22.09** 



### PMV FATALITIES



**Aug 05** 

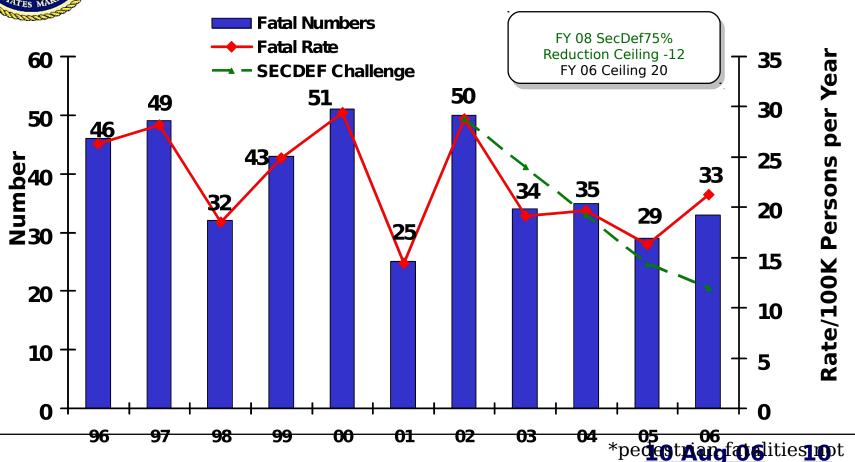
CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 51 / 32.93 43 / 28.17

FY05 FATALITIES/FATALITY RATE: 47 / 26.48

10-YEAR AVERAGE (FY96-05) FATALITIES/FATALITY RATE: 51.5 / 29.47



### 4-WHEEL PMV FATALITIES



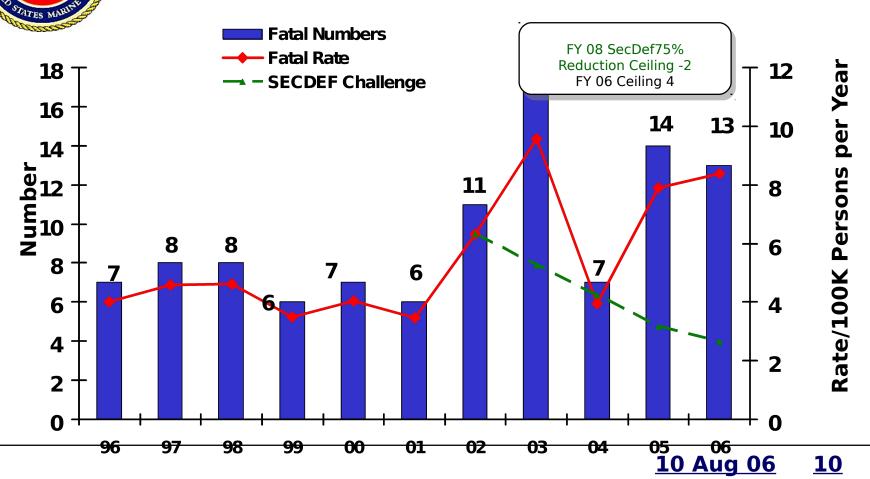
**Aug 05** 

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 33 / 21.31 29 / 19.00

FY05 FATALITIES/FATALITY RATE: 29 / 16.34 10-YEAR AVERAGE (FY96-05) FATALITIES/FATALITY RATE: 39.4 / 22.55

included

# OTORCYCLE PMV FATALITIES



**Aug 05** 

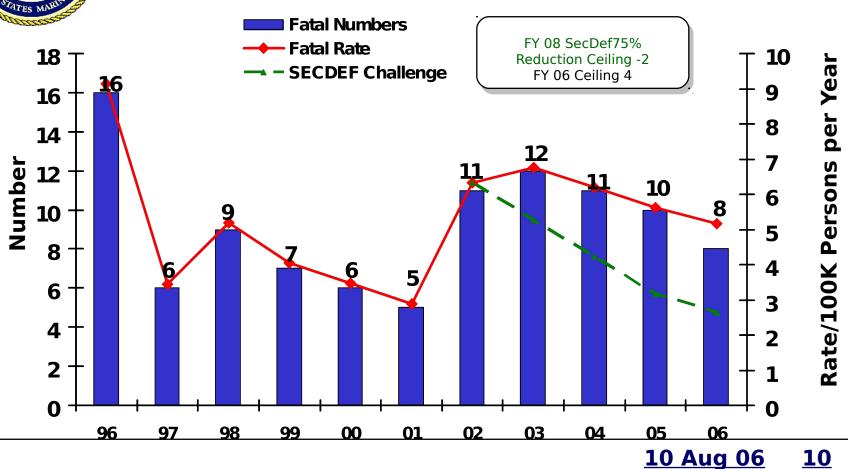
CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 13 / 8.39 12 / 7.86

FY05 FATALITIES/FATALITY RATE: 14 / 7.89

10-YEAR AVERAGE (FY96-05) FATALITIES/FATALITY RATE: 9.1 / 5.21



# OFF-DUTY/REC FATALITIES



**Aug 05** 

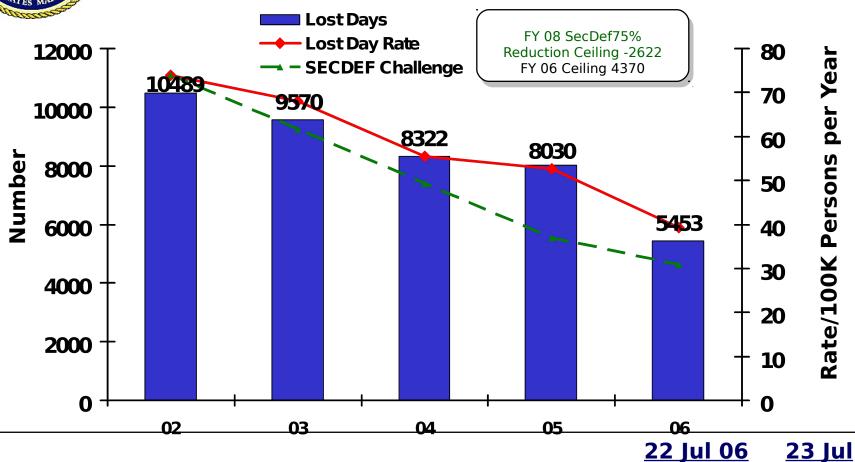
CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 8 / 5.17 8 / 5.24

FY05 FATALITIES/FATALITY RATE: 10 / 5.63

10-YEAR AVERAGE (FY96-05) FATALITIES/FATALITY RATE: 9.3 / 5.32



## CIVILIAN LOST WORK DAY



05

**LOST WORK DAY FY RATE COMPARISON: 39.33** 

53.10

FY05 LOST WORK DAY RATE: 52.57

4-YEAR AVERAGE (FY02-05) LOST WORK DAY RATE: 62.18